

## WEST Search History

DATE: Wednesday, November 17, 2004

Hide?	Set Name	Query	Hit Count
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L14	L13 not l11	31
<input type="checkbox"/>	L13	l7 not l8	34
<input type="checkbox"/>	L12	L11 not l8	3
<input type="checkbox"/>	L11	l9 or l10	12
<input type="checkbox"/>	L10	l7 and burn	6
<input type="checkbox"/>	L9	l7 and trauma	6
<input type="checkbox"/>	L8	L7 and wound	12
<input type="checkbox"/>	L7	l4 and L6	46
<input type="checkbox"/>	L6	antisense or anti-sense	56818
<input type="checkbox"/>	L5	antisense or anti-sense	56818
<input type="checkbox"/>	L4	l2 or L3	131
<input type="checkbox"/>	L3	connexin-43	34
<input type="checkbox"/>	L2	connexin43	99
<input type="checkbox"/>	L1	connexin	510

END OF SEARCH HISTORY

## WEST Search History

DATE: Wednesday, November 17, 2004

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<input type="checkbox"/>	L14	L13 not l11	31
<input type="checkbox"/>	L13	l7 not l8	34
<input type="checkbox"/>	L12	L11 not l8	3
<input type="checkbox"/>	L11	l9 or l10	12
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<input type="checkbox"/>	L7	l4 and L6	46
<input type="checkbox"/>	L6	antisense or anti-sense	56818
<input type="checkbox"/>	L5	antisense or anti-sense	56818
<input type="checkbox"/>	L4	l2 or L3	131
<input type="checkbox"/>	L3	connexin-43	34
<input type="checkbox"/>	L2	connexin43	99
<input type="checkbox"/>	L1	connexin	510

END OF SEARCH HISTORY

**McGarry, Sean**

---

**To:** STIC-Biotech/ChemLib  
**Subject:** SEQ SEARCH 09/890,363

Sean McGarry  
AU 1635  
REM 02D19 Office  
REM 2C18 Mailbox  
X20761

09/890,363

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NEWS 3 JUL 12 BEILSTEIN enhanced with new display and select options,  
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NEWS 4 AUG 02 IFIPAT/IFIUDB/IFICDB reloaded with new search and display  
fields  
NEWS 5 AUG 02 Caplus and CA patent records enhanced with European and Japan  
Patent Office Classifications  
NEWS 6 AUG 02 The Analysis Edition of STN Express with Discover!  
(Version 7.01 for Windows) now available  
NEWS 7 AUG 27 BIOCOMMERCE: Changes and enhancements to content coverage  
NEWS 8 AUG 27 BIOTECHABS/BIOTECHDS: Two new display fields added for legal  
status data from INPADOC  
NEWS 9 SEP 01 INPADOC: New family current-awareness alert (SDI) available  
NEWS 10 SEP 01 New pricing for the Save Answers for SciFinder Wizard within  
STN Express with Discover!  
NEWS 11 SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX  
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NEWS 13 SEP 27 SWETSCAN will no longer be available on STN  
NEWS 14 OCT 28 KOREAPAT now available on STN  
  
NEWS EXPRESS OCTOBER 29 CURRENT WINDOWS VERSION IS V7.01A, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004  
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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 10:07:41 ON 17 NOV 2004

=> file medline caplus embase biotechno biosis scisearch		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'MEDLINE' ENTERED AT 10:08:21 ON 17 NOV 2004

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=> s connexin

L1 19141 CONNEXIN

=> s connexin43

L2 5439 CONNEXIN43

=> s connexin-43

L3 8698 CONNEXIN-43

=> s antisense or anti-sense

L4 143567 ANTISENSE OR ANTI-SENSE

=> s ribozyme

L5 21179 RIBOZYME

=> s sirna or rnai

L6 12598 SIRNA OR RNAI

=> s l2 or l3

L7 11804 L2 OR L3

=> s l7 and l4

L8 305 L7 AND L4

=> l7l7 and l5

L7L7 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.  
For a list of commands available to you in the current file, enter  
"HELP COMMANDS" at an arrow prompt (=>).

=> s l7 and l5

L9 2 L7 AND L5

=>

=> s l7 and l6

L10 4 L7 AND L6

=> s l8 and wound

L11 7 L8 AND WOUND

=> dup rem l11

PROCESSING COMPLETED FOR L11

L12 3 DUP REM L11 (4 DUPLICATES REMOVED)

=> d 1-3 ab

L12 ANSWER 1 OF 3 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN

L12 ANSWER 2 OF 3 MEDLINE on STN DUPLICATE 1  
AB The repair of tissue damage is a key survival process in all organisms and involves the coordinated activation of several cell types. Cell-cell communication is clearly fundamental to this process, and a great deal is known about extracellular communication within the **wound** site via cytokines. Here we show that direct cell-cell communication through **connexin 43** (Cx43) gap junction channels also plays a major role in the **wound** healing process. In two different **wound** healing models, incisional and excisional skin lesions, we show that a single topical application of Cx43 **antisense** gel brings about a transient downregulation of Cx43 protein levels, and this results in a dramatic increase in the rate of **wound** closure. Cx43 knockdown reduces inflammation, seen both macroscopically, as a reduction in swelling, redness, and **wound** gape, and microscopically, as a significant decrease in neutrophil numbers in the tissue around the **wound**. One long-term consequence of the improved rate of healing is a significant reduction in the extent of granulation tissue deposition and the subsequent formation of a smaller, less distorted, scar. This approach is likely to have widespread therapeutic applications in other injured tissues and opens up new avenues of research into improving the **wound** healing process.

L12 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN  
AB A therapeutic and/or cosmetic formulation comprising at least one **anti-sense** polynucleotide to a connexin protein together with a pharmaceutically acceptable carrier or vehicle is useful in site-specific down-regulation of connexin protein expression, particularly in reduction of neuronal cell death, **wound** healing, reduction of inflammation, decrease of scar formation and skin rejuvenation and thickening.

=> d 1-3

L12 ANSWER 1 OF 3 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN

AN 2004221775 EMBASE  
TI Connecting wounds with connexins.  
AU Hodgins M.B.  
CS M.B. Hodgins, Squamous Cell Biol. and Dermatology, Div. Cancer Sci. and Molec. Pathol., University of Glasgow, Glasgow, United Kingdom  
SO Journal of Investigative Dermatology, (2004) 122/5 (ix-x).  
Refs: 12  
ISSN: 0022-202X CODEN: JIDEAE  
CY United States  
DT Journal; Editorial  
FS 005 General Pathology and Pathological Anatomy  
013 Dermatology and Venereology  
029 Clinical Biochemistry  
LA English

L12 ANSWER 2 OF 3 MEDLINE on STN DUPLICATE 1  
AN 2003460481 MEDLINE  
DN PubMed ID: 14521835  
TI Targeting **connexin43** expression accelerates the rate of **wound** repair.  
AU Qiu Cindy; Coutinho Petula; Frank Stefanie; Franke Susanne; Law Lee-yong; Martin Paul; Green Colin R; Becker David L  
CS Department of Anatomy and Developmental Biology, University College

London, Gower St., WC1E 6BT London, UK.  
 SO Current biology : CB, (2003 Sep 30) 13 (19) 1697-703.  
 Journal code: 9107782. ISSN: 0960-9822.  
 CY England: United Kingdom  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 200406  
 ED Entered STN: 20031003  
 Last Updated on STN: 20040606  
 Entered Medline: 20040604

L12 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2000:535022 CAPLUS  
 DN 133:155431  
 TI Formulations comprising **antisense** nucleotides to connexins  
 IN Becker, David Laurence; Green, Colin Richard  
 PA University College London, UK  
 SO PCT Int. Appl., 64 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000044409	A1	20000803	WO 2000-GB238	20000127
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
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	EP 1146908	A1	20011024	EP 2000-901236	20000127
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PRAI	NZ 1999-333928	A	19990127		
	NZ 1999-500190	A	19991007		
	WO 2000-GB238	W	20000127		

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FILE 'MEDLINE, CAPLUS, EMBASE, BIOTECHNO, BIOSIS, SCISEARCH' ENTERED AT 10:08:21 ON 17 NOV 2004

L1 19141 S CONNEXIN  
 L2 5439 S CONNEXIN43  
 L3 8698 S CONNEXIN-43  
 L4 143567 S ANTISENSE OR ANTI-SENSE  
 L5 21179 S RIBOZYME  
 L6 12598 S SIRNA OR RNAI  
 L7 11804 S L2 OR L3  
 L8 305 S L7 AND L4  
 L9 2 S L7 AND L5

L10 4 S L7 AND L6  
L11 7 S L8 AND WOUND  
L12 3 DUP REM L11 (4 DUPLICATES REMOVED)

=> d 19 1-2

L9 ANSWER 1 OF 2 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN  
AN 1998367597 EMBASE  
TI Workshop on cardiovascular specific gene expression; Maastricht, The  
Netherlands, 12-14 December 1997.  
AU Doevendans P.A.; Reneman R.S.; Van Bilsen M.  
SO Pflugers Archiv European Journal of Physiology, (1998) 436/6 (1016-1020).  
ISSN: 0031-6768 CODEN: PFLABK  
CY Germany  
DT Journal; Conference Article  
FS 002 Physiology  
005 General Pathology and Pathological Anatomy  
018 Cardiovascular Diseases and Cardiovascular Surgery  
LA English

L9 ANSWER 2 OF 2 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN  
AN 1998:28496752 BIOTECHNO  
TI Workshop on cardiovascular specific gene expression; Maastricht, The  
Netherlands, 12-14 December 1997  
AU Doevendans P.A.; Reneman R.S.; Van Bilsen M.  
SO Pflugers Archiv European Journal of Physiology, (1998), 436/6 (1016-1020)  
CODEN: PFLABK ISSN: 0031-6768  
DT Journal; Conference Article  
CY Germany, Federal Republic of  
LA English

=> d ab 1 19

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=> dup rem 110

PROCESSING COMPLETED FOR L10

L13 1 DUP REM L10 (3 DUPLICATES REMOVED)

=> d ab

L13 ANSWER 1 OF 1 MEDLINE on STN DUPLICATE 1  
AB BACKGROUND: Connexins form gap junctions that mediate the transfer of  
ions, metabolites, and second messengers between contacting cells. Many  
aspects of connexin function, for example cellular transport, plaque  
assembly and stability, and channel conductivity, are finely tuned and  
likely involve proteins that bind to connexins' cytoplasmic domains.  
However, little is known about such regulatory proteins. To identify  
novel proteins that interact with the COOH-terminal domain of  
**Connexin-43** (Cx43), the most widely expressed connexin  
family member, we applied a proteomics approach to screen fractions of  
mouse tissue homogenates for binding partners. RESULTS: Drebrin was  
recovered as a binding partner of the Cx43 COOH-terminal domain from mouse  
brain homogenate. Drebrin had previously been described as an actin  
binding protein that diminishes in brains during Alzheimer's disease. The  
novel Drebrin-Cx43 interaction identified by proteomics was confirmed by  
colocalization of endogenous proteins in astrocytes and Vero cells,  
coimmunoprecipitation, electron microscopy, electrophysiology,  
coexpression of both proteins with fluorescent tags, and live-cell FRET  
analysis. Depletion of Drebrin in cells with **siRNA** results in



impaired cell-cell coupling, internalization of gap junctions, and targeting of Cx43 to a degradative pathway. CONCLUSIONS: We conclude that Drebrin is required for maintaining Cx43-containing gap junctions in their functional state at the plasma membrane. It is thus possible that Drebrin may interact with gap junctions in zones of cell-cell contacts in a regulated fashion in response to extracellular signals. The rearrangement or disruption of interactions between connexins and the Drebrin-containing submembrane cytoskeleton directs connexins to degradative cellular pathways.

=> d 1

L13 ANSWER 1 OF 1 MEDLINE on STN DUPLICATE 1  
AN 2004188732 MEDLINE  
DN PubMed ID: 15084279  
TI Drebrin is a novel **connexin-43** binding partner that  
links gap junctions to the submembrane cytoskeleton.  
AU Butkevich Eugenia; Hulsmann Swen; Wenzel Dirk; Shirao Tomoaki; Duden  
Rainer; Majoul Irina  
CS Department of Neurophysiology, University of Gottingen, Gottingen,  
Germany.  
SO Current biology : CB, (2004 Apr 20) 14 (8) 650-8.  
Journal code: 9107782. ISSN: 0960-9822.  
CY England: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200406  
ED Entered STN: 20040416  
Last Updated on STN: 20040609  
Entered Medline: 20040608

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NEWS 8 AUG 27 BIOTECHABS/BIOTECHDS: Two new display fields added for legal  
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NEWS 10 SEP 01 New pricing for the Save Answers for SciFinder Wizard within  
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NEWS 11 SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX  
NEWS 12 SEP 27 STANDARDS will no longer be available on STN  
NEWS 13 SEP 27 SWETSCAN will no longer be available on STN  
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MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004  
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=> file medline caplus embase biotechno biosis scisearch		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

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=> s connexin43  
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L3 8698 CONNEXIN-43

=> s antisense or anti-sense  
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L6 12598 SIRNA OR RNAI

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L7 11804 L2 OR L3

=> s l7 and l4  
L8 305 L7 AND L4

=> l7l7 and l5  
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=> s l7 and l5  
L9 2 L7 AND L5

=>

=> s l7 and l6  
L10 4 L7 AND L6

=> s l8 and wound  
L11 7 L8 AND WOUND

=> dup rem l11  
PROCESSING COMPLETED FOR L11  
L12 3 DUP REM L11 (4 DUPLICATES REMOVED)

=> d 1-3 ab

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L12 ANSWER 2 OF 3 MEDLINE on STN

DUPLICATE 1

AB The repair of tissue damage is a key survival process in all organisms and involves the coordinated activation of several cell types. Cell-cell communication is clearly fundamental to this process, and a great deal is known about extracellular communication within the wound site via cytokines. Here we show that direct cell-cell communication through **connexin 43** (Cx43) gap junction channels also plays a major role in the wound healing process. In two different wound healing models, incisional and excisional skin lesions, we show that a single topical application of Cx43 **antisense** gel brings about a transient downregulation of Cx43 protein levels, and this results in a dramatic increase in the rate of wound closure. Cx43 knockdown reduces inflammation, seen both macroscopically, as a reduction in swelling, redness, and wound gape, and microscopically, as a significant decrease in neutrophil numbers in the tissue around the wound. One long-term consequence of the improved rate of healing is a significant reduction in the extent of granulation tissue deposition and the subsequent formation of a smaller, less distorted, scar. This approach is likely to have widespread therapeutic applications in other injured tissues and opens up new avenues of research into improving the wound healing process.

L12 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

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=> d 1-3

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AN 2004221775 EMBASE

TI Connecting wounds with connexins.

AU Hodgins M.B.

CS M.B. Hodgins, Squamous Cell Biol. and Dermatology, Div. Cancer Sci. and Molec. Pathol., University of Glasgow, Glasgow, United Kingdom

SO Journal of Investigative Dermatology, (2004) 122/5 (ix-x).

Refs: 12

ISSN: 0022-202X CODEN: JIDEAE

CY United States

DT Journal; Editorial

FS 005 General Pathology and Pathological Anatomy

013 Dermatology and Venereology

029 Clinical Biochemistry

LA English

L12 ANSWER 2 OF 3 MEDLINE on STN

DUPLICATE 1

AN 2003460481 MEDLINE

DN PubMed ID: 14521835

TI Targeting **connexin43** expression accelerates the rate of wound repair.

AU Qiu Cindy; Coutinho Petula; Frank Stefanie; Franke Susanne; Law Lee-yong; Martin Paul; Green Colin R; Becker David L

CS Department of Anatomy and Developmental Biology, University College

London, Gower St., WC1E 6BT London, UK.  
 SO Current biology : CB, (2003 Sep 30) 13 (19) 1697-703.  
 Journal code: 9107782. ISSN: 0960-9822.  
 CY England: United Kingdom  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 200406  
 ED Entered STN: 20031003  
 Last Updated on STN: 20040606  
 Entered Medline: 20040604

L12 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2000:535022 CAPLUS  
 DN 133:155431  
 TI Formulations comprising **antisense** nucleotides to connexins  
 IN Becker, David Laurence; Green, Colin Richard  
 PA University College London, UK  
 SO PCT Int. Appl., 64 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000044409	A1	20000803	WO 2000-GB238	20000127
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	NZ 1999-500190	A	19991007		
	WO 2000-GB238	W	20000127		

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